

B. Clifford



Current economizing adjustment
(Key "S")

Reduction disk

Cord

Record player
(Key "P")

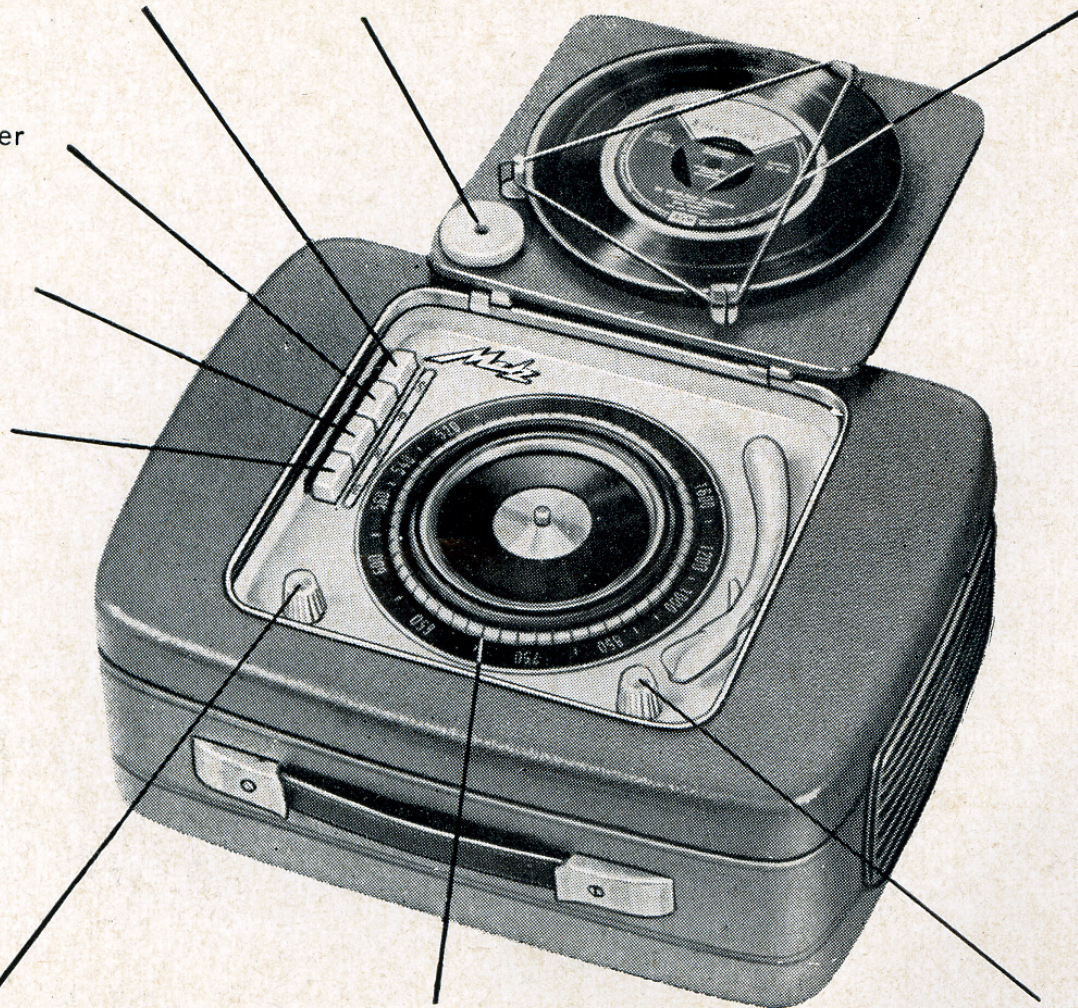
Radio
(Key "R")

On-off switch
(Key "E")

Volume Control

Tuning

Speed Adjuster



The current supply

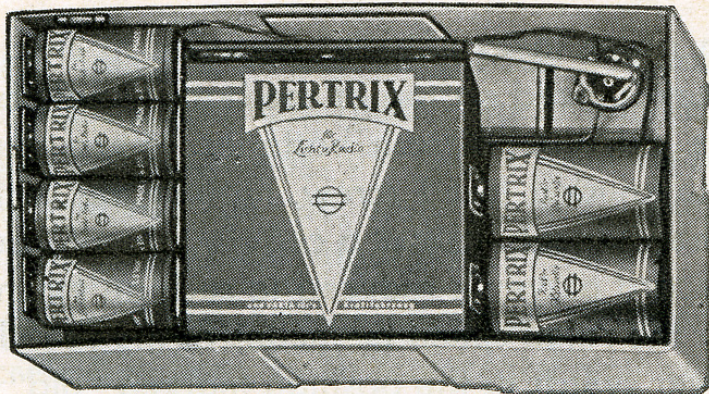
Your Babyphon receives the power which makes it come alive from a Microdyn Anode of 90 volts, 2 radio single cells of 1.5 volts each and 4 radio baby-cells of 1.5 volts each. The baby-cells feed the miniature record player. All batteries are neatly grouped and easily accessible and have been placed in a battery box made of insulated material.

Due to its special current saving tubes and a circuit organization designed to economized current, your Babyphon is very frugal. For this reason, its batteries last avery long time; but, of course, the anode battery lasts longer than the single cells. Therefore, it would be advisable for you to take spare single cells along when embarking on a long trip or drive.

Another tip: use quality batteries, it will pay in the end!

The Insertion of the Batteries.

When the back wall is hinged down, you can easily remove the battery from the apparatus. You will just have to disengage the connecting plug which cannot be mistaken for anything else. After pulling off the spring-action cover of the battery box, you can con-



veniently exchange the individual batteries by taking them out and replacing them. The anode battery is connected by means of a snap-button fastener. The correct arrangement of the batteries in the box has been shown on the illustration.

The Battery Switch for the Record Player.

The battery operated miniature record player, which has been especially constructed for the Babyphon, is a tiny miracle in itself. It uses only a fraction of the current required for a small flashlight bulb. For this reason, a set of batteries lasts, with normal use, for approximately 1000 record sides of the M 45 type.

In order to exploit the batteries to the last, a small throw-over switch has been placed on top of the battery box, by means of which a resistance can be cut in with fresh batteries. When you insert new baby-cells, you loosen the knurled-head screw, turning the switching flap to the position marked "new" (neu). If after a certain time of operation the speed of rotation of the record player is reduced to such an extent that it can no longer be adjusted to the rated speed by means of the speed regulator, you change the throw-over switch to the position marked "old" (alt).

The current economizing adjustment

By pressing the current economizing key "S", you put your Babyphon on "a small current ration". This will mean a substantial saving of the batteries which will last a correspondingly longer time. The current economizing adjustment acts, in practice, only on the volume of sound of the apparatus; its reception capacity will scarcely be influenced thereby. With a normal volume of sound, you will, therefore, be able - practically always - to press the current economizing key. Only when a very large volume of sound is required, it will be necessary to set it at normal.

The current economizing key "S" is released by depressing and letting go.

Radio reception

Antenna.

A special, intensively effective Ferrit Selective Antenna has been built into your Babyphon. With the aid of the same, you can receive the broadcasts of quite a number of stations perfectly and audibly. By means of the direction finding device of the selective antenna, you can, under certain circumstances, improve reception by a slight turn of the apparatus.

In places of reception where the transmitting waves are very much screened (for instance, in certain steel concrete buildings, or in motorcars) you can,

if necessary, make a connection with an outside antenna. The connecting-socket is located on the right side back in the apparatus; it is accessible after the back face has been opened. The Antenna conductor goes through the notch in the right lower corner of the back face.

Switching on.

By means of the connection key "E", your Babyphon is switched on, and by an additional pressure on key "R", the connection for radio reception is completed.

Tuning.

With your Babyphon, you can receive broadcasts on the medium wavelength of 510-1630 kilocycles per second. You adjust the station desired by turning the large notched circle on the large round scale. This scale has been divided into kilocycles.

Volume of Sound.

You adjust the volume of sound by means of the small control button marked "Ton" (Sound).

Switching off.

In case you wish to switch off your Babyphon, you press the connection key "E", down, then letting it go, thus effecting the release. The key "R" remains depressed.

The record player

Your Babyphon has a miniature record player, operated by means of an electric battery, adapted to the new 17 cm light records of the M 45 type (45 RPM). The high tone quality of these records is fully exploited by the excellent crystal phonograph pickup, whereby the large oval loudspeaker assures full sounding, natural reproduction.

On the inside of the lid of the casing, you can store 5 records of the M 45 type. The records have been fastened by means of a rubber cord and have thus been secured against damage while in transit. In addition, a reducing disk for records with a large central hole has been placed on the lower edge of the lid.

The record player of the Babyphon needs no special attention. The bearing of the motor should not be oiled.

Switching on.

Just as with the radio reception, the apparatus is switched on by means of the connection key "E". The record player starts when you depress the key "P".

Placing the Sound Arm into Operating Position.

Here is a tip for placing the sound arm into operating position: Use the outer edge of the holding fork of the sound arm as a guide for the phonograph pickup. In this manner, you will find securely and easily the starting groove of the record with the sapphire.

After the record has been played, clamp the sound arm back into the holding fork; then the crystal cannot be damaged in transit.

Speed of Rotation.

The speed of rotation of the record player can be regulated by means of the small control button designated with "45". When you turn it to the left, the record player will run slower - turn it to the right, and it will run faster.

Volume of Sound.

You adjust the volume of sound with record playing in the same manner as with radio reception.

Switching off.

With record playing, too, the Babyphon is switched off by depressing the engaging key "E". In case you wish to switch over directly from record playing to radio reception, you will only have to depress key "R". Key "P" is then automatically released, as both keys are interlocked. In reserve, you can switch from radio reception to record playing without operating the engaging key.

Operation connected to the public power supply system

At home, and anywhere you can find a socket, you can connect your Babyphon to the alternating current line by means of a supply system connector. This connector is simply inserted in place of the battery box and hooked up by plug with the apparatus. You guide the supply cord through the notch in the lower left corner of the back face to the outside.

Correct Supply System Voltage.

Before inserting the supply system connector, please do not forget to adjust the correct supply system voltage (110, 127 or 220 volts). For this purpose, pull the spring-action cover plate of the supply system connector after loosening the screw, in the same manner you did with the battery box. Then you can shift the switch lever of the voltage selector to the available connecting voltage.

In any case, you can see which voltage has been adjusted through the small window in the cover plate. In the factory, the supply system connector will be adjusted to a system voltage of 220 V.

Switching on and off.

If operated connected to the supply system, you switch your Babyphon on and off by means of the cord plug on the supply cable. The connecting key "E" can remain permanently depressed. All other operation details are the same as with battery operation.

Current Economizing Adjustment with Supply System Operation.

The current economizing adjustment does not apply with supply system operation. Therefore, do not depress the current economizing key "S" when the apparatus has been connected with the public supply system.

Now, have much fun with your Babyphon!

The technical data

6 Heavy Duty circuits;
Medium wave lengths of 510 - 1630 kilocycles per second;
Large, permanent-dynamic oval loudspeaker, 18 x 11 cm:
Intensified Ferrit Selective Antenna with direction finder;
Additional connection for outer antenna;
Four-stage special key system;
Effective current economizing adjustment.

Tube Equipment:

Special current economizing tubes: DK 96, DF 96, DAF 96, DL 94.

Current Supply:

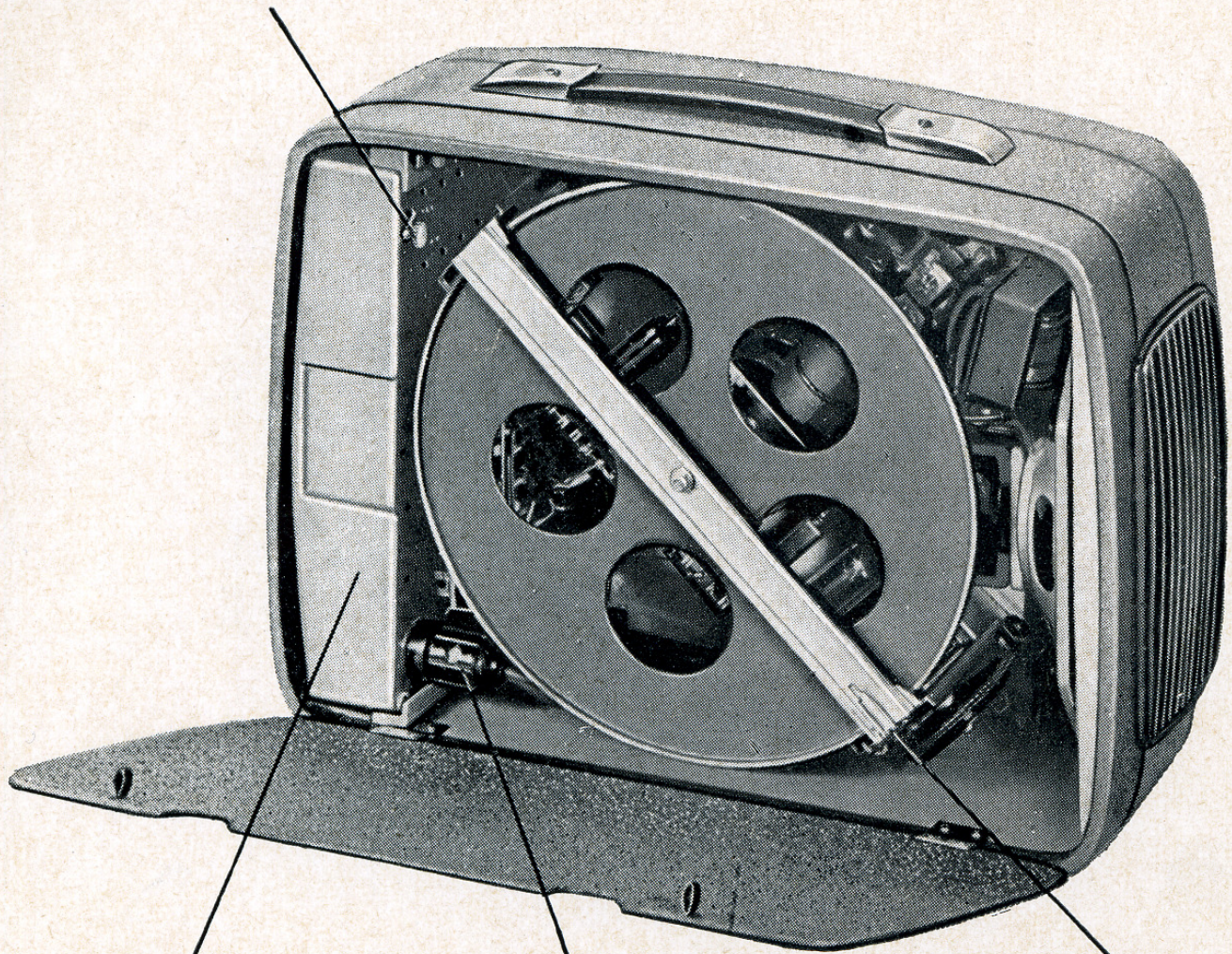
1 Microdynanode of 90 volts, 2 radio monocells of 1.5 volts each;
4 radio baby-cells of 1.5 volts each for the record player;
or, with operation plugged in on the public supply system;
supply system connector for 110 / 127 / 220 V alternating current

Record Player:

Battery miniature record player for 45 RPM;
High grade crystal phonograph pickup with sapphire.

Weight: 4.9 kilos, incl. batteries.

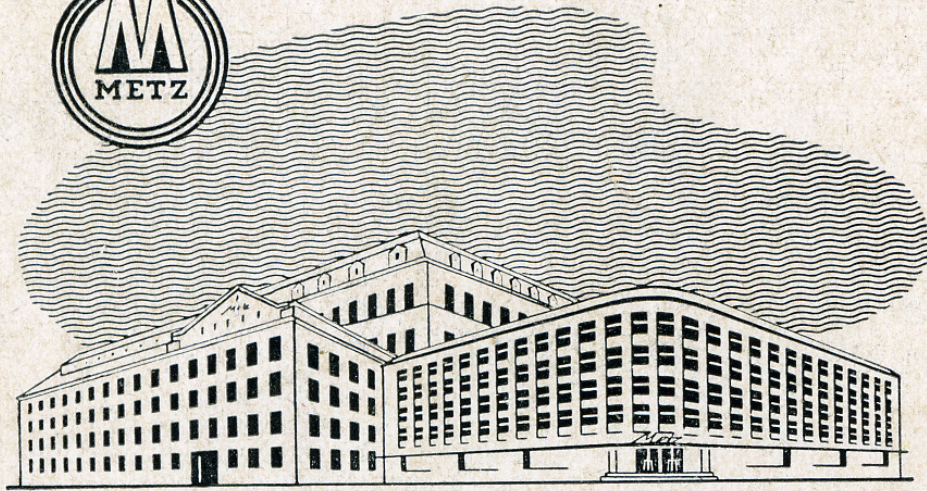
Battery switch for record player



Battery box

Plug Connection

Box for outer antenna



Metz

APPARATUS PLANT · FÜRTH, BAVARIA